

ABSTRACT

A track-locking method for an optical disk drive is conducted according to the following steps. First, a tracking error signal (TE signal) is detected, and then the time period for a pickup head jumping from one track to another track is divided into four periods. Secondly, the extreme values of the reshaped tracking error signal (TE' signal) in the first, second and third periods are preset, and the TE signal of the first period is reshaped in view of the extreme value of the TE' signal in the first period and the crest value or the trough value of the TE signal, so as to form the TE' signal in the first period. Then, a line connecting the extreme values of the TE' signal in the first period and the second period is established as the TE' signal in the second period, and a line connecting the extreme values of the TE' signals in the second and third periods is established as the TE' signal in the third period. The TE' signal curve in the above-described periods can be obtained by the manners of linear connection or proportionally reshaping the TE signal.